Title (en)

MULTIPLE SENSOR INTEGRATION

Title (de)

INTEGRATION MEHRERER SENSOREN

Title (fr)

INTÉGRATION DE MULTIPLES CAPTEURS

Publication

EP 3250888 B1 20200311 (EN)

Application

EP 16701875 A 20160126

Priority

- GB 201501206 A 20150126
- GB 2016050156 W 20160126

Abstract (en)

[origin: GB2534417A] A method of compensating for signal error comprises receiving a first signal 1 from a first sensor, said first signal indicative of a movement characteristic, applying an error compensation 5 to said first signal to produce an output signal 10 and applying a variable gain factor 25 to said error compensation. A second signal 15 is received from a second sensor indicative of the same movement characteristic and the said error compensation is calculated 20 using the difference between said output signal and said second signal. The variable gain factor is calculated using said first signal. The first and second signals may be from different sensors, e.g. a gyroscope and an accelerometer, or the same sensor with different characteristics, e.g. one has lower high frequency noise, better bias or stability.

IPC 8 full level

G01C 21/16 (2006.01); **G01C 25/00** (2006.01)

CPC (source: EP GB US)

G01C 21/10 (2013.01 - GB); **G01C 21/188** (2020.08 - EP GB US); **G01C 21/20** (2013.01 - GB); **G01C 25/005** (2013.01 - EP GB US); G01C 23/00 (2013.01 - US)

Citation (examination)

- EP 0511730 A2 19921104 - LITTON SYSTEMS INC [US]
- EP 2172743 A2 20100407 - HONEYWELL INT INC [US]
- WO 2007050163 A1 20070503 - HONEYWELL INT INC [US], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

GB 201501206 D0 20150311; **GB 2534417 A 20160727**; **GB 2534417 B 20190612**; BR 112017015675 A2 20180313; EP 3250888 A1 20171206; EP 3250888 B1 20200311; EP 3517892 A1 20190731; EP 3517892 B1 20210505; US 10415977 B2 20190917; US 2018017389 A1 20180118; WO 2016120600 A1 20160804

DOCDB simple family (application)

GB 201501206 A 20150126; BR 112017015675 A 20160126; EP 16701875 A 20160126; EP 19160741 A 20160126; GB 2016050156 W 20160126; US 201615545822 A 20160126